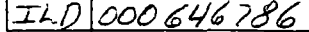


PK to 10. 11-27-84
Date Jan 11-27-84

EPA 03117402				POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT				I. IDENTIFICATION	
				01 STATE	02 SITE NUMBER				
				IL	000646786				
II. SITE NAME AND LOCATION									
01 SITE NAME (Legal, common, or descriptive name of site)				02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER					
Motor Oil Refining Co				7601 W 47th St.					
03 CITY				04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST	
McCook				IL	60525	Cook	031	05	
09 COORDINATES				02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER					
LATITUDE 42 48 13.8				LONGITUDE 082 48 40.0					
10 DIRECTIONS TO SITE (Starting from nearest public road)				Berwyn Quad (320)					
See Attached Map									
III. RESPONSIBLE PARTIES									
01 OWNER (If known)				02 STREET (Business, mailing, residential)					
Harry Litwin and Assoc.				P.O. Box 282					
03 CITY				04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER			
Wichita				KA	67201	(316) 265-0731			
07 OPERATOR (If known and different from owner)				08 STREET (Business, mailing, residential)					
Moreco Energy Inc				7601 W. 47th St.					
09 CITY				10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER			
McCook				IL	60525	(312) 242-2252			
13 TYPE OF OWNERSHIP (Check one)									
<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL									
<input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN									
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)									
<input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: 6-8-81 MONTH DAY YEAR <input type="checkbox"/> C. NONE									
IV. CHARACTERIZATION OF POTENTIAL HAZARD									
01 ON SITE INSPECTION				BY (Check all that apply)					
<input checked="" type="checkbox"/> YES DATE 01/06/81 MONTH DAY YEAR <input type="checkbox"/> NO 11-23-83				<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)					
02 SITE STATUS (Check one)				03 YEARS OF OPERATION					
<input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN				Oct-1940 Present BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN					
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED									
Oily Waste (Persistent / Flamable) Heavy Metals (Toxic / Persistent)									
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION									
Ground Water (Population / Environment) Surface Water (Environment)									
V. PRIORITY ASSESSMENT									
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)									
<input type="checkbox"/> A. HIGH (Inspection required promptly) <input checked="" type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)									
VI. INFORMATION AVAILABLE FROM									
01 CONTACT		02 OF (Agency/organization)		03 TELEPHONE NUMBER					
Kenneth Fredette		Motor Oil Refining Co		(312) 242-2252					
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE				
Richard Lange		IEPA		(217) 782-9351	08-21-84 MONTH DAY YEAR				







POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL 000646788

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 130,000 04 NARRATIVE DESCRIPTION

Percolation of (K048 through K052), Oily waste
Through Soil Profile.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE 4-5-83) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED NA 04 NARRATIVE DESCRIPTION

Surface water run off bearing oily waste, probably containing
K048, 49, 50, 51 + K052, Run off was 26% oil on this date, ^{No Known} Municipal intakes
Run off leaves site in tributary ditch to Des Plaines River in Area

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED unk 04 NARRATIVE DESCRIPTION
(Acres)

See A

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL 000646 786

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

See A Des Plains River < 1/4 mile

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills runoffs standing liquids leaking drums)

02 ☒ OBSERVED (DATE 4-5-83)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED 130,000

04 NARRATIVE DESCRIPTION

See B and Attachments

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE 4-5-83)

☐ POTENTIAL

☐ ALLEGED

See B and Attachments

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 130,000

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

IEPA Files (Air, Land, Water)

EXECUTIVE SUMMARY

Moreco (Motor Oils Refining Company) is involved in the re-refining of used industrial and engine crankcase oil. According to statements from the company they accept no oils or materials with a flash point below 140°F. The major portion of their incoming oil appears to come by rail with smaller amounts incoming by semi-tanker and barrel. Moreco states that the only hazardous material dealt with by them are tank bottoms from their incoming oil storage but the nature of this type of industry leaves this in question. Tank bottoms are removed by a private contractor for off site disposal.

The major problems noted by this author would be the poor containment of surface runoff, a noted off site soil contamination and a high potential for groundwater contamination.

A medium priority has been assigned with soil samples and monitoring wells deemed in order.

RL:mkb:S/35

B - 1,3FACILITY DESCRIPTION

The processing plant, located in McCook, Illinois, re-refines waste oil through a proprietary vacuum distillation process. The process produces base oil which is then blended with virgin blending oils and additives to produce lubricants meeting customer specifications.

The plant is situated on a 6.6 acre tract of land in an industrial area of McCook. There are two buildings on the site along with the distillation equipment and storage tanks for used oil, base oil, blending oil, and additives. Total tank capacity is approximately 2.6 M gallons. There are also provisions for handling drum quantities of all these materials.

Primary processing equipment consists of six (6) atmospheric distillation towers, three (3) vacuum distillation systems, six (6) process heaters, two (2) steam boilers, a Dowtherm vaporizer, a water treatment facility, and an incinerator. The total storage capacity is approximately 2.5 M gallons.

Used oil supplies come from three primary sources: railroads (diesel engine lube oil and car journal oil), industrial users (hydraulic, metalworking, and quenching oils), and automotive consumers (crank case oil). Railroad diesel engine used oil is segregated from the other lower viscosity oils throughout the system. This oil generally contains no lead. Storage for the lower viscosity used oil is limited to two (2) 250 K gallon tanks.

Process byproducts, a very heavy asphalt-like material and fuel oil are sold commercially. Some of the fuel oil is consumed internally for process heat. Approximately half the process heat is produced by burning natural gas.

Process water is collected and treated in an API separator and a DAF system. Since the plant is diked around the entire perimeter, rain water is also processed through the waste water treatment facility. The fuel oil mentioned above is removed from the API separator. Light gases are drawn off the separator, scrubbed, and consumed in the incinerator.

Process area fire protection is provided by deluge and sprinkler systems, strategically located fire hydrants and hoses, and dry chemical extinguishers. A fire alarm is tied into the McCook fire department through ADT. No storage tanks contain ignitable substances.